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For prokaryotic cells, which statement is correct concerning how the structure of a particular cell component correlates with its function? - ✓✓ The cell wall is a tough, fibrous layer that protects the cell and gives it shape and rigidity.

In lateral gene transfer, genes are \_\_\_\_\_. - ✓✓ moved from one species to another

Which character separates bacteria from archaea? - ✓✓ bacteria have peptidoglycan in their cell wall.

What does it mean to say that prokaryotic organisms have "compact" genomes, relative to eukaryotic genomes? - ✓✓ The ratios between their number of genes and their genome sizes are generally larger than in eukaryotes.

If the surface area of a cell increases by a factor of 100, the volume of that cell will - ✓✓ increase by a factor of 1000.

Which one of the following is a tenet of the Cell Theory? - ✓✓ - all cells come from pre-existing cells  
- all organisms are composed of cells  
- cells are the fundamental units of life

Which of the following statements about archaea is correct? - ✓✓ - archaea share similar structural features with bacteria, but are not bacteria  
- archaea share similar biochemical features with eukaryotes but are not eukaryotes

\_\_\_\_\_ are surface appendages that allow a bacterium to stick to a surface. - ✓✓ Fimbriae

What is a function of a bacterium's capsule? - ✓✓ protection

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## Cisco Certified Support Technician (CCST) Networking Sample Questions (Q38-Q43):

### NEW QUESTION # 38

Examine the following output:

```
Examining the following command output:

C:\Admin>tracert www.cisco.com
5
over a maximum of 30 hops:
  0  <1 ms  <1 ms  <1 ms  2603-6081-943f-72ec-a240-a0ff-fe67-3c14.res6.big.com [2603:6081:943f:72ec:a240:a0ff:fe67:3c14]
  1  13 ms  11 ms  16 ms  2603-90b3-0a00-01bb-0000-0000-0000-0001.wifi6.biginternet.com [2603:90b3:a00:1bb:1]
  2  17 ms  25 ms  18 ms  lag-61.zblnnc1001h.netops.exchange.com [2001:db8:a000:0:4:8::dc]
  3  16 ms  13 ms  11 ms  lag-29.drhmncev02r.netops.exchange.com [2001:db8:a000:0:4::2:152]
  4  *      *      *      Request timed out.
  5  *      *      *      Request timed out.
  6  19 ms  18 ms  27 ms  lag-0.pr2.cca10.netops.provider.com [2001:db8:1998:0:4::517]
  7  21 ms  32 ms  23 ms  2001:db8:1998:0:8::639
  8  16 ms  15 ms  18 ms  vlan-103.r10.spine101.iad03.fab.netarch.provider.com [2600:1408:b400:40b::1]
  9  15 ms  17 ms  22 ms  vlan-110.r03.leaf101.iad03.fab.netarch.provider.com [2600:1408:b400:f03::1]
 10  17 ms  17 ms  23 ms  vlan-104.r08.tor101.iad03.fab.netarch.provider.com [2600:1408:b400:2908::1]
 11  25 ms  19 ms  19 ms  g2600-1408-c400-038d-0000-0000-0000-0b33.deploy.static.et.com [2600:1408:c400:38d::b33]

Trace complete.
```

Which two conclusions can you make from the output of the tracert command? (Choose 2.) Note: You will receive partial credit for each correct answer.

- A. The device sending the trace has IPv6 address 2600:1408:c400:38d :: b33.
- B. The trace failed after the fourth hop.
- C. The routers at hops 5 and 6 are offline.
- **D. The trace successfully reached the www.cisco.com server.**
- **E. The IPv6 address associated with the www.cisco.com server is 2600:1408: c400: 38d: : b33.**

**Answer: D,E**

Explanation:

\*Statement A: "The trace successfully reached the www.cisco.com server." This is true as indicated by the

"Trace complete" message at the end, showing that the trace has reached its destination.

\*Statement C: "The IPv6 address associated with the www.cisco.com server is 2600:1408:c400:38d:b33." This is true because the final hop in the trace, which is the destination, has this IPv6 address.

\*Statement B: "The trace failed after the fourth hop." This is incorrect as the trace continues beyond the fourth hop, despite some intermediate timeouts.

\*Statement D: "The routers at hops 5 and 6 are offline." This is not necessarily true. The routers might be configured to not respond to traceroute requests.

\*Statement E: "The device sending the trace has IPv6 address 2600:1408:c400:38d:b33." This is incorrect; this address belongs to the destination server, not the sender.

References:

\*Understanding Traceroute: Traceroute Guide

### NEW QUESTION # 39

What is the most compressed valid format of the IPv6 address 2001 :0db8:0000:0016:0000:001b: 2000:0056?

- A. 2001:db8::16::1b:2:56
- **B. 2001:db8:0:16::1b:2000:56**
- C. 2001:db8::16::1b:2000:56
- D. 2001:db8:16::1b:2:56

**Answer: B**

Explanation:

IPv6 addresses can be compressed by removing leading zeros and replacing consecutive groups of zeros with a double colon (::).

Here's how to compress the address 2001:0db8:0000:0016:0000:001b:2000:0056:

- \* Remove leading zeros from each segment:

- \* 2001:db8:0000:0016:0000:001b:2000:0056 becomes 2001:db8:0:16:0:1b:2000:56

- \* Replace the longest sequence of consecutive zeros with a double colon (::). In this case, the two consecutive zeros between the 16 and 1b:

- \* 2001:db8:0:16::1b:2000:56

Thus, the most compressed valid format of the IPv6 address is 2001:db8:0:16::1b:2000:56.

References :=

- \* Cisco Learning Network

- \* IPv6 Addressing (Cisco)

#### NEW QUESTION # 40

A user reports that a company website is not available. The help desk technician issues a tracert command to determine if the server hosting the website is reachable over the network.

The output of the command is shown as follows:

```
C:\>tracert 192.168.1.10
Tracing route to 192.168.1.10 over a maximum of 30 hops:
 0  ms  0  ms  1  ms  192.168.5.1
 1  ms  0  ms  0  ms  10.0.1.1
 3  *      *      *      Request timed out.
 4  ms  1  ms  0  ms  10.0.0.2
 5  ms  1  ms  0  ms  192.168.1.10
```

What can you tell from the command output?

- A. The server with the address 192.168.1.10 is reachable over the network.
- B. Requests to the web server at 192.168.1.10 are being delayed and time out.
- C. The router at hop 3 is not forwarding packets to the IP address 192.168.1.10.
- D. The server address 192.168.1.10 is being blocked by a firewall on the router at hop 3.

**Answer: A**

Explanation:

The tracert command output shows the path taken to reach the destination IP address, 192.168.1.10.

The command output indicates:

- \* Hops 1 and 2 are successfully reached.

- \* Hop 3 times out, meaning the router at hop 3 did not respond to the tracert request.

However, this does not necessarily indicate a problem with forwarding packets, as some routers may be configured to block or not respond to ICMP requests.

- \* Hops 4 and 5 are successfully reached, with hop 5 being the destination IP 192.168.1.10, indicating that the server is reachable.

Thus, the correct answer is C. The server with the address 192.168.1.10 is reachable over the network.

Reference: =

- \* Cisco Traceroute Command

- \* Understanding Traceroute

The tracert command output indicates that the server with the address 192.168.1.10 is reachable over the network. The asterisk (\*) at hop 3 suggests that the probe sent to that hop did not return a response, which could be due to a variety of reasons such as a firewall blocking ICMP packets or the router at that hop being configured not to respond to ICMP requests. However, since the subsequent hops (4 and 5) are showing response times, it means that the packets are indeed getting through and the server is reachable.

Reference: =

- \* How to Use Traceroute Command to Read Its Results

- \* How to Use the Tracert Command in Windows

#### NEW QUESTION # 41

Which two statements are true about the IPv4 address of the default gateway configured on a host? (Choose 2.) Note: You will

receive partial credit for each correct selection.

- A. The IPv4 address of the default gateway must be the first host address in the subnet.
- **B. The same default gateway IPv4 address is configured on each host on the local network.**
- C. Hosts learn the default gateway IPv4 address through router advertisement messages.
- D. The default gateway is the Loopback0 interface IPv4 address of the router connected to the same local network as the host.
- **E. The default gateway is the IPv4 address of the router interface connected to the same local network as the host.**

**Answer: B,E**

Explanation:

\*Statement B: "The same default gateway IPv4 address is configured on each host on the local network." This is true because all hosts on the same local network (subnet) use the same default gateway IP address to send packets destined for other networks.

\*Statement D: "The default gateway is the IPv4 address of the router interface connected to the same local network as the host." This is true because the default gateway is the IP address of the router's interface that is directly connected to the local network.

\*Statement A: "The IPv4 address of the default gateway must be the first host address in the subnet." This is not necessarily true. The default gateway can be any address within the subnet range.

\*Statement C: "The default gateway is the Loopback0 interface IPv4 address of the router connected to the same local network as the host." This is not true; the default gateway is the IP address of the router's physical or logical interface connected to the local network.

\*Statement E: "Hosts learn the default gateway IPv4 address through router advertisement messages." This is generally true for IPv6 with Router Advertisement (RA) messages, but not typically how IPv4 hosts learn the default gateway address.

References:

\*Cisco Default Gateway Configuration: Cisco Default Gateway

#### NEW QUESTION # 42

A Cisco PoE switch is shown in the following image.

Which type of port will provide both data connectivity and power to an IP phone?



- A. Ports identified with numbers 3 and 4
- **B. Ports identified with number 6**
- C. Ports identified with number 7
- D. Port identified with number 2

**Answer: B**

Explanation:

In the provided image of the Cisco PoE switch, the ports identified with number 6 are the standard RJ-45 Ethernet ports typically found on switches that provide both data connectivity and Power over Ethernet (PoE). PoE ports are designed to supply power to devices such as IP phones, wireless access points, and other PoE-enabled devices directly through the Ethernet cable.

Ports:

\* 2: Console port (for management and configuration)

- \* 3 and 4: Specific function ports (often for management)
  - \* 6: RJ-45 Ethernet ports (capable of providing PoE)
  - \* 7: SFP ports (for fiber connections, typically do not provide PoE) Thus, the correct answer is C. Ports identified with number 6.
- Reference: =
- \* Cisco Catalyst 2960-L Series Switches Data Sheet
  - \* Cisco PoE Overview

## NEW QUESTION # 43

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